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# THE BOSTON COLLEGE

## *War Program*



CHESTNUT HILL.

MASSACHUSETTS



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THIS supplement has been prepared for the guidance of prospective students of Boston College. Naturally, it is condensed in form, but it contains all the essential facts concerning admission requirements, courses, war programs, etc.

It is clear that institutions of higher learning are faced with the problem, difficult of solution, of training young men for the immediate as well as for the remote future, of training them for a manful part in the great national effort for victory as well as for a world after victory. The urgency of the present and immediate demands on youth calls for courses of instruction that will directly contribute to the efforts of our nation at war; while the future of our own nation as well as the future of youth calls for courses of instruction that will contribute to the well being of both, after the war. For both the war and the peace must be won.

Consequently, more emphasis must be placed on the study of Mathematics and the Natural Sciences; opportunities for specialization in these subjects must be widened; individual plans of study must include fundamental courses in these fields; courses recommended by the War and Navy Departments, as directly contributing to the pre-military training of the student, must have their place.

By the same token, more, not less emphasis must be placed on Social Science, for students must be made aware of their social responsibilities as citizens of America and of the World. More, not less emphasis must be placed on the history and language of modern foreign nations, for it is through these studies that the road to better understanding and riper friendship lies. More, not less emphasis must be placed on Philosophy as the integrating and coordinating science of life, action and thought.

Boston College is keenly alive to the problems facing higher education today and will make every effort to equip her students for their place in the conflict and in the peace, after the conflict.

## Academic Year

Our government has requested that institutions of higher learning introduce accelerated programs to enable students to complete requirements for graduation before reaching the age for military service. In response to this request Boston College has introduced an accelerated program of study. It will be possible, in the future, for students to complete all degree requirements in a period of three years.

Students, who wish to take advantage of further acceleration, may complete the work required in two and two-thirds years. For this group a Summer Session of eight weeks duration will begin on July 1, 1942. The first semester of the accelerated program for all Freshmen will begin on September 8, 1942.

While vacation periods will be shortened, and holidays granted more infrequently, courses of study and content of curriculum will in no way be lessened.

Programs of study will be accelerated with no deviation from qualitative or quantitative standards. Acceleration will not be permitted to become mere haste. For not by haste can there be sound training and education of the youth of America for intelligent and thorough participation in America's destiny.

## Religious Training

While Boston College is a Catholic college, in the admission of students no discrimination is made on the grounds of religious belief. Religious instruction is given in class periods\* which form an integral element of the curriculum. The formal instruction is supported by various spiritual extra-curricular activities and practices. A Student Counsellor is available at all times to the student. Finally, there is an all pervading background against which all the individual elements, which must be the staple of sound education for the immediate future as well as for the post-war world, are projected. Religion plays no small part in the formation of loyal citizens and will always be a factor in the lives of individuals as well as of our nation.

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\* Non-Catholic students are free to attend this instruction.

# Entrance Requirements

## GENERAL STATEMENT

Entrance requirements are administered by the Committee on Admissions, which has been empowered to permit such modifications governing admission requirements as may be judged necessary and are consistent with the maintenance of high educational standards. Students who have minor entrance deficiencies but who show promise of success will be considered for admission.

Applications for admission to Boston College must be filed with the Registrar no later than May 1, 1942 to receive consideration for Entrance and Scholarship Examinations, which will be held on Saturday, May 9, 1942. Supplementary Entrance Examinations will be held on August 25, 1942. Application for these examinations must be filed no later than August 15, 1942.

Registrants for the degree of *Bachelor of Arts* must present written evidence that fifteen (15) units of work have been completed in an approved secondary school. These units must be distributed over the following subjects: Latin, Algebra, Plane Geometry, English, Modern Language, other subjects.

Registrants for the degree of *Bachelor of Science* in Biology, Chemistry, Physics, Electrical Engineering\*, must present written evidence that fifteen (15) units of work have been completed in an approved secondary school. These units must be distributed over the following subjects: English, Algebra, Plane Geometry, Modern Language, Science, other subjects.

Registrants for the degree of *Bachelor of Science* in Education, History, Social Science must present written evidence that fifteen (15) units of work have been completed in an approved secondary school. These units must be distributed over the following subjects: English, Algebra, Plane Geometry, United States History, Modern Language, other subjects.

## ENTRANCE EXAMINATIONS

All applicants for admission to Boston College, in addition to satisfying the general unit requirements must receive passing grades in the Boston College Entrance Examinations, which will embrace a series of objective tests designed to measure aptitude and achievement.

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\*This curriculum was first introduced in 1941-1942. At present it is coordinated with the Department of Physics.

## SCHOLARSHIP EXAMINATIONS

Each year Boston College awards a number of full and partial scholarships. These awards are made on the results of competitive examinations. For the 1942 Freshman Class there will be fourteen full and partial scholarships open to competition.

In order to qualify for the Scholarship Examinations certification in at least five secondary school courses is necessary.

Scholarship Examinations will be held only on Saturday, May 9, 1942.

## EXAMINATION FEES

There is a fee of five dollars for Scholarship and Entrance Examinations. The fee is to be made payable to the Treasurer of Boston College. Candidates who wish to be considered for the Boston College Entrance and Scholarship Examinations must pay the examination fee at least one week before the date of the examinations.

# Courses and Requirements for Degree

## GENERAL

It is axiomatic of Jesuit Education that genuine education demands the supervision and control of trained and experienced teachers and is not a thing to be regulated by the inexperienced students. Today, more than ever before, in the midst of bewilderment and vagueness, rigidly supervised courses of instruction with clear objectives, sound philosophy and training, adequate for the needs of today as well as for tomorrow, are imperative. The attitudes and aptitudes of the student must be carefully explored, his mind conditioned to the demands of narrow specialization. Therefore, a harmonious sequence of courses must be arranged, with courses in Language, History, Mathematics, the Natural Sciences and Philosophy forming the core of a prescribed curriculum.

Together with these courses more specialized fields are integrated and intensive training in the Languages and Literature or Mathematics and the Natural Sciences or in the Social Sciences is not only possible, but is desirable.

The College at the present time confers two academic degrees, Bachelor of Arts (A.B.), and Bachelor of Science (B.S.). Individual courses of study which will be found on pages 13 to 15, are consequently arranged in two groups, each one leading to one of these two degrees. Within the Bachelor of Science group, there are again seven groups, since all students registering for this degree are expected to concentrate in either Biology or Chemistry or Physics, or Electrical Engineering or History or Education or Social Science.

### SELECTION OF COURSE

Students applying for admission will be expected to signify which of the two general groups (A.B. or B.S.) it is their intention to follow. Students who wish Pre-Medical or Pre-Dental training should register for the degree of A.B. or B.S., Biology Concentration. Pre-Law training is given in the A.B. or B.S., Social Science curriculum. They will be aided in their choice by the Dean of Freshman and an Advisor for Freshman Studies.\*

### FIELD OF CONCENTRATION

In addition to prescribed courses in Language, Mathematics, Science, Philosophy, all students must choose a Field of Concentration. In this choice the provocative factor should be the student's prospective place in the emergency and in the remote future.

Candidates for the Degree *Bachelor of Science* must choose a Field of Concentration on admission to the College. The choice will lie among the Natural Sciences of Biology, Chemistry, Physics, Engineering, and the Social Sciences (Education, History, Social Science).

Candidates for the degree of *Bachelor of Arts* must, before the end of the sophomore year, choose a Field of Concentration. For such students study in a Field of Concentration comprises:

- (a) 24 semester hours of instruction in a unified field of studies, such as Economics, Chemistry, Physics, History.
- (b) assigned reading or investigation in designated subjects.
- (c) a thesis in some portion of the Field of Concentration.

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\* Appointment may be made by calling the Office of the Freshman Dean, BIGelow 1480.

## ALLIED FIELD

To guard against the defects of narrow specialization, each student must obtain at least 12 semester hours credit in a field allied to the Field of Concentration. Allied Fields are arranged below, horizontally:

- I. Language and Literature.  
English, French, German, Greek, Italian,  
Latin, Portuguese, Spanish.
- II. Social Sciences.  
Economics, Education, History, Philosophy,  
Political Science, Sociology.
- III. Natural Sciences and Mathematics.  
Biology, Chemistry, Mathematics,  
Physics.

## HONORS WORK

The course leading to the degree of Bachelor of Arts with Honors is reserved to the more gifted students, whose secondary school work and entrance examination results indicate that they have the ability to carry a program of intensive academic work. To remain in the Honors Course, students must maintain an average of at least "B" in all major subjects of study.

More intensive classroom work and assignments for personal investigation outside of class than is ordinarily expected, will be exacted of Honors Course students.

At the discretion of the Dean of the College, students in Honors may be exempted from regular attendance at classes, but written reports, personal conference with Instructors, group discussions will be required.

## Guidance and Placement

Boston College offers special assistance to students in choosing courses that will best qualify them for their place in the emergency and after the war. The Office of Guidance and Placement helps them in obtaining information concerning vital services that may be rendered in the armed forces and in industry as well as educational and professional opportunities.

To insure the proper choice of courses and career, each Freshman is assigned to a Freshman Advisor, whom he must meet at least four times in the course of his Freshman Year at the College.

Assistance is also offered in solving the problem of employment during the collegiate career of the student.

## Student Organizations

In the past Boston College has offered a varied program of extra-curricular activities, Religious, Academic, Dramatic, Forensic, Athletic. These organizations, suited to the choice and interest of the individual, supplemented the work of the class-room and gave ample opportunity for self-expression, initiative, poise.

It has not been deemed advisable to curtail these activities, but rather to focus all their manifestations more sharply on the conflict, in which we, as a nation, are engaged. Language and Science Academies will be used by the student to acquire new skill which will make a direct contribution to our war effort.

Religious activities will in no way be minimized, for in the formation of the whole man, in the development of a fruitful and purposive life, religion has no substitute.

Dramatic and forensic activities will be used to channel to local communities and clubs correct notions of democracy, freedom, the historic role that America is playing in the present day, post war aims and adjustment. In other words these activities will serve as builders of morale among the student body as well as the local civilian population.

Competitive sports will serve to sharpen the competitive instincts of the student and newer lessons of loyalty, cooperation and team-play will be their goal.

## Annual Expense Requirements

Boston College is not an endowed Institution. Therefore, it is normally dependent for support and development on the fees paid for tuition and for the other collegiate requirements. The following rules must be strictly observed.

The payment of Tuition, Student Activities and Library Fees, is to be made by mail or in person, not later than the days assigned. Freshmen receive their first bills at the time of Registration.

Bills are rendered as follows:

- (1) First Quarter—due on entrance in September
  - Tuition—\$56.25
  - Student Activity Fee (one-half)—\$12.00
  - Library Fee (one-half)—\$5.00
  - Registration Fee—\$5.00

(2) Second Quarter—due in the middle of November

Tuition—\$56.25

(3) Third Quarter—due at the end of December

Tuition—\$56.25

Student Activity Fee (one-half)—\$12.00

Library Fee (one-half)—\$5.00

(4) Fourth Quarter—due at the end of February

Tuition—\$56.25

Holders of full scholarships are not exempt from the payment of Registration, Student Activities, Library or Science Fees at the time prescribed.

Students registered for the degree of Bachelor of Science program in Biology, Chemistry, Physics or Electrical Engineering, must pay the Science Fees for Inorganic Chemistry, Physics, and the breakage deposit, at the time of registration. The laboratory fee covers the rental of locker, and apparatus, use of gas, water, electricity, chemicals and equipment, as well as the many incidental expenses of conducting a laboratory course.

## SUMMARY OF ANNUAL EXPENSES

|                                             |         |
|---------------------------------------------|---------|
| Registration—upper classes (non-refundable) | \$ 1.00 |
| Registration—new students (non-refundable)  | 5.00    |
| Tuition—for academic year                   | 225.00  |
| *Student Activities—payable semi-annually   | 24.00   |
| Library—payable semi-annually               | 10.00   |
| Condition Examinations                      | 5.00    |
| Deficiency Course                           | 20.00   |
| **Certificate of Grades                     | 1.00    |
| Inorganic Chemistry                         | 20.00   |
| Organic Chemistry                           | 40.00   |
| Physical Chemistry                          | 30.00   |
| Qualitative Analysis                        | 15.00   |
| Quantitative Analysis                       | 15.00   |
| Qualitative Organic Analysis                | 20.00   |
| Biochemistry                                | 20.00   |
| Physics                                     | 15.00   |
| Biology                                     | 30.00   |
| Cultural Biology                            | 15.00   |
| Graduation                                  | 10.00   |

\* The student Activities Fee subsidizes expenses incidental to the conduct of extra-curricular activities and entitles the student to subscription for the *Stylus* and *Heights*, student publications, athletic reductions, admission to College Concerts and Plays.

\*\* No transcript of academic record will be sent from the Registrar's Office during the periods of Final Examinations and Registration.

# Special War Effort

## WAR AIMS COURSES AND LECTURES

Since the outbreak of the war special Convocations of the student body have been called to present lectures on the War Aims, American Institutions and Christian Culture.

A special lecture series, dealing with the background and implications of the war, has been made available to the entire student body.

Student forum and discussion programs have been expanded to promote a more intimate knowledge of America's role in the world conflict.

Reading shelves on American Institutions and Culture have been established which contain basic materials on American Institutions, to bring to the student the fundamental principles of the American faith and constitutional government.

## COURSES IN SPECIAL TRAINING AREAS

During the emergency opportunities will be provided for the student to become equipped, in some measure, with special knowledge and skills, that will be useful when he is called into the armed forces, industry, or other civilian activity. The College also offers courses which enable the student to meet college requirements of different branches of the military service in a minimum of time. This is especially true of courses in mathematics and other subjects for men who enlist in the Naval Reserve, Class V-1, V-5, V-7 Programs. Pre-induction indoctrination courses have been established with the aid of the First Naval District for these Naval Reserve Classes. Programs have also been established for candidates for the Marine Corps Reserve, the Flying Cadet Training Program of the Air Corps. The Civil Pilot Training Program, first inaugurated at Boston College in the Fall of 1939, will be encouraged among the students.

Special courses with or without credit will be offered for the duration of the emergency. Courses in Radio and Radio Communications, Meteorology, Navigation, Morse Code, Ballistics, First Aid, Civilian Defense, have become part of the War Time Program of Boston College.

## PHYSICAL EDUCATION

Serious concern about the physical fitness of American youth has led the War and Navy Departments of

the United States Government, to request that a program of Physical Education for all students be adopted by collegiate institutions.

Therefore, a medical and physical examination of each student will be made on entrance to the College. On the basis of these examinations advice and direction as to the physical activities to be followed during the collegiate career of the student will be given. This examination will be supplemented by periodical examinations required of all students who are candidates for competitive sports.

Students not engaged in varsity competition will be required to participate in a program of physical education. Group calisthenics and games that are basically competitive will form the staple of this program. The purpose will be to improve body control and strength, to stimulate mental and physical alertness, to build reserves of strength for the successful prosecution of the war, to form lasting habits of sound physical exercise.

# Programs of Study

## BACHELOR OF ARTS (General)

### FRESHMAN YEAR

|             |    |
|-------------|----|
| Latin       | 6  |
| Greek       | 6  |
| English     | 6  |
| Language    | 6  |
| Mathematics | 6  |
| History     | 6  |
| Religion    | 2  |
| <hr/>       |    |
|             | 38 |

### SOPHOMORE YEAR

|                      |    |
|----------------------|----|
| Latin                | 3  |
| *Greek and/or        |    |
| Mathematics          | 6  |
| Language             | 6  |
| Religion             | 2  |
| Physics or Chemistry | 8  |
| Logic                | 2  |
| English              | 6  |
| <hr/>                |    |
|                      | 33 |

### JUNIOR YEAR

|                 |    |
|-----------------|----|
| Philosophy      | 6  |
| Religion        | 2  |
| **Concentration | 12 |
| ***Allied Field | 6  |
| Free Elective   | 6  |
| <hr/>           |    |
|                 | 32 |

### SENIOR YEAR

|               |    |
|---------------|----|
| Psychology    | 6  |
| Ethics        | 6  |
| Religion      | 2  |
| Concentration | 12 |
| Allied Field  | 6  |
| <hr/>         |    |
|               | 32 |

## BACHELOR OF ARTS (Mathematics Option)

### FRESHMAN YEAR

|             |    |
|-------------|----|
| English     | 6  |
| Latin       | 6  |
| Mathematics | 6  |
| Language    | 6  |
| Religion    | 2  |
| Chemistry   | 8  |
| <hr/>       |    |
|             | 34 |

### SOPHOMORE YEAR

|             |    |
|-------------|----|
| Latin       | 3  |
| Mathematics | 6  |
| Language    | 6  |
| Religion    | 2  |
| English     | 6  |
| Physics     | 8  |
| Logic       | 2  |
| <hr/>       |    |
|             | 33 |

### JUNIOR YEAR

|                 |    |
|-----------------|----|
| Philosophy      | 6  |
| Religion        | 2  |
| **Concentration | 12 |
| ***Allied Field | 6  |
| History         | 6  |
| <hr/>           |    |
|                 | 32 |

### SENIOR YEAR

|               |    |
|---------------|----|
| Psychology    | 6  |
| Ethics        | 6  |
| Religion      | 2  |
| Concentration | 12 |
| Allied Field  | 6  |
| <hr/>         |    |
|               | 32 |

\*Students who begin the study of Greek at Boston College must take Greek in Sophomore Year. They may take Mathematics as an extra subject. Advanced Greek students may take Greek or Mathematics or both Greek and Mathematics.

\*\*Field of Concentration: 24 semester hours credit must be obtained in one field. sc. Classics, Chemistry, Economics.

\*\*\*Allied Field: 12 semester hours credit must be obtained in Junior and Senior Year in a field allied to the Concentration.

## BACHELOR OF SCIENCE (Natural Science)

### FRESHMAN YEAR

|             |       |
|-------------|-------|
| English     | 6     |
| Mathematics | 6     |
| Physics     | 8     |
| Chemistry   | 8     |
| German      | 6     |
| Religion    | 2     |
|             | <hr/> |
|             | 36    |

### SOPHOMORE YEAR

| Biology   |       | Chemistry   |       | Physics     |       |
|-----------|-------|-------------|-------|-------------|-------|
| English   | 6     | English     | 6     | English     | 6     |
| Chemistry | 10    | Mathematics | 6     | Mathematics | 6     |
| German    | 6     | Chemistry   | 10    | Physics     | 8     |
| Religion  | 2     | German      | 6     | Chemistry   | 8     |
| Logic     | 2     | Religion    | 2     | German      | 6     |
| Biology   | 8     | Biology     | 6     | Religion    | 2     |
|           | <hr/> | Logic       | 2     | Logic       | 2     |
|           | 34    |             | <hr/> |             | <hr/> |
|           |       |             | 38    |             | 38    |

### JUNIOR YEAR

|            |       |            |       |             |       |
|------------|-------|------------|-------|-------------|-------|
| Philosophy | 6     | Philosophy | 6     | Philosophy  | 6     |
| Religion   | 2     | Religion   | 2     | Religion    | 2     |
| Biology    | 8     | Chemistry  | 16    | Mathematics | 6     |
| Chemistry  | 8     | History    | 6     | Physics     | 12    |
| History    | 6     |            | <hr/> | History     | 6     |
|            | <hr/> |            | 30    |             | <hr/> |
|            | 30    |            |       |             | 32    |

### SENIOR YEAR

|            |       |            |       |             |       |
|------------|-------|------------|-------|-------------|-------|
| Psychology | 6     | Psychology | 6     | Psychology  | 6     |
| Ethics     | 6     | Ethics     | 6     | Ethics      | 6     |
| Religion   | 2     | Religion   | 2     | Religion    | 2     |
| Biology    | 11    | Chemistry  | 13    | Mathematics | 6     |
| Chemistry  | 4     | Elective   | 4     | Physics     | 12    |
| Elective   | 6     |            | <hr/> |             | <hr/> |
|            | <hr/> |            | 31    |             | 32    |
|            | 35    |            |       |             |       |

## BACHELOR OF SCIENCE (Education, History, Social Science)

### FRESHMAN YEAR

|             |       |
|-------------|-------|
| English     | 12    |
| Mathematics | 6     |
| History     | 6     |
| Religion    | 2     |
| Language    | 6     |
|             | <hr/> |
|             | 32    |

### SOPHOMORE YEAR

|                 |       |
|-----------------|-------|
| English         | 6     |
| History         | 6     |
| Language        | 6     |
| Religion        | 2     |
| *Elective       | 6     |
| **Concentration | 6     |
| Logic           | 2     |
|                 | <hr/> |
|                 | 34    |

### JUNIOR YEAR

|               |       |
|---------------|-------|
| Philosophy    | 6     |
| Religion      | 2     |
| Concentration | 12    |
| Allied Field  | 6     |
| Elective      | 6     |
|               | <hr/> |
|               | 32    |

### SENIOR YEAR

|               |       |
|---------------|-------|
| Psychology    | 6     |
| Ethics        | 6     |
| Religion      | 2     |
| Concentration | 12    |
| Allied Field  | 6     |
|               | <hr/> |
|               | 32    |

\*Sophomores may choose either a Science or Mathematics or a new modern language. A language begun in the Sophomore Year must be continued in Junior Year.

\*\*In addition to 24 semester hours credit in a Field of Concentration in Junior and Senior Years, students registered for these courses must take a fundamental course in the Sophomore Year.

## BACHELOR OF SCIENCE (Electrical Engineering)

### FRESHMAN YEAR

|                          |       |
|--------------------------|-------|
| English                  | 6     |
| Mathematics              | 6     |
| Physics                  | 8     |
| Chemistry                | 8     |
| German                   | 6     |
| Religion                 | 2     |
| Engineering Drawing      | 2     |
| Machine Tools and Design | 2     |
|                          | <hr/> |
|                          | 40    |

### SOPHOMORE YEAR

|                                   |       |
|-----------------------------------|-------|
| English                           | 6     |
| Mathematics                       | 6     |
| Electrical Engineering Principles | 7     |
| Electrical Instruments            | 3     |
| Thermodynamics                    | 4     |
| Applied Mechanics                 | 7     |
| Machine Design                    | 4     |
| Religion                          | 2     |
| Logic                             | 2     |
|                                   | <hr/> |
|                                   | 41    |

### JUNIOR YEAR

|                                      |       |
|--------------------------------------|-------|
| Philosophy                           | 6     |
| Religion                             | 2     |
| Mathematics                          | 3     |
| Electrical Engineering Principles    | 8     |
| Electrical Communications Principles | 6     |
| Strength of Materials                | 4     |
| Electroacoustics                     | 2     |
| Economic Principles                  | 6     |
|                                      | <hr/> |
|                                      | 37    |

### SENIOR YEAR

|                                      |       |
|--------------------------------------|-------|
| Psychology                           | 6     |
| Ethics                               | 6     |
| Religion                             | 2     |
| Mathematics                          | 3     |
| Electrical Engineering Principles    | 5     |
| Electrical Communications Principles | 10    |
| Electronics                          | 5     |
|                                      | <hr/> |
|                                      | 37    |

## War Time Calendar

May 1, 1942—Application for Entrance and  
Scholarship Examinations close.

May 9, 1942—Entrance and Scholarship  
Examinations.

June 23, 24, 25, 1942—Registration for Summer  
Session.

July 1, 1942—Summer Session opens.

August 15, 1942—Applications for Entrance  
Examinations close.

August 21, 1942—Summer Session closes.

August 25, 1942—Entrance Examinations.

August 31, September 1, 2, 3, 4—Registration for  
Fall Session.

September 8, 1942—Formal opening of Fall Semester.

December 19, 1942—First Semester ends.

December 28, 1942—Second Semester.

April 9, 1942—Second Semester ends.

April 12, 13, 14, 15, 16—Final Examinations.

*Address all inquiries:*

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